

TI - Video image conversion to 3D format display from standard 2D image frame - generates horizontally shifted second signal set through image constituent specific adjustable parallax based on image characteristics like brightness, contrast, high frequency components

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PA - (SAOL) SANYO ELECTRIC CO LTD

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The video image defined by the luminance (Y) and chrominance (R-Y, B-Y) signals is recast as a set of two corresponding signal pairs (L, R) accommodating a specific parallax between these signal pairs that is adjustable as per user commands, through the parallax control circuit (4). Incorporation of the parallax between specific image constituents is based on the input signal attributes such as brightness module (7), computed brightness contrast module (9), extent of high frequency components module (8).

- The CPU (3) accepts the attribute specific input data as well as user choice based commands, the latter separately being pre- processed through an adaptive processor (300), providing the desired settings to the parallax control unit. The extent of horizontal shift spatially, of the second signal pair and the magnitude of the parallax provided are directly related.
- ADVANTAGE - Ensures desired 3D ambience during viewing effectively as per user preference. (Dwg.1/20)



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(71) Applicant: SANYO ELECTRIC CO LTD
(72) Inventor: OKETANI KAZUNOBU

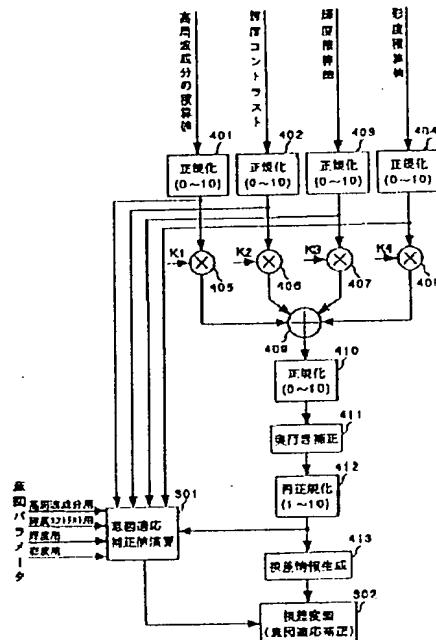
**(54) INTENTION ADAPTIVE DEVICE FOR
CONVERTING TWO-DIMENSIONAL VIDEO INTO
THREE-DIMENSIONAL VIDEO**

(57) Abstract:

PROBLEM TO BE SOLVED: To provide an intention adaptive device for converting a two-dimensional video into three-dimensional video which emphasizes a stereoscopic effect of a specific feeling among persons and objects within photographic video in accordance with a person's intention.

SOLUTION: A sensitive word is inputted, significant ranges which correspond to the sensitive word are separately selected for plural elements (high frequency component, luminance, luminance contrast, saturation, etc.) which device image feature quantity about the perspective of video, parallax calculating areas which become stereoscopic effect emphasizing objects are selected by an intention adaptive correction operating part 301 from the values of elements which are selected among the image feature quantity in each of plural parallax calculation areas that are set in one field screen, and a parallax modulating part 302 corrects the parallax information so that the stereoscopic effect of the selected parallax calculating areas may be emphasized.

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